

=====

Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Thu Jun 07 17:18:30 EDT 2007

=====

Application No: 10575814 Version No: 1.1

Input Set:

Output Set:

Started: 2007-06-07 17:18:05.457
Finished: 2007-06-07 17:18:07.835
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 378 ms
Total Warnings: 0
Total Errors: 0
No. of SeqIDs Defined: 155
Actual SeqID Count: 155

SEQUENCE LISTING

<110> Chibout, Salah-Dine
 Grass, Peter
 Vonderscher, Jacky
 Grenet, Olivier

<120> DIFFERENTIALLY EXPRESSED GENES RELATED
TO CORONARY ARTERY DISEASE

<130> 33318 US-PCT

<140> 10/575, 814
<141> 2004-10-15

<150> 60/511,784
<151> 2003-10-16

<150> 60/574,818
<151> 2004-05-27

<160> 155

<170> FastSEO for Windows Version 4.0

```
<210> 1  
<211> 878  
<212> DNA  
<213> Homo sapiens
```

```
<220>
<221> gene
<222> (1)...(878)
<223> Ferritin; Highly similar to FRIL_HUMAN Ferritin
      light chain (Ferritin L subunit) [H.sapiens], iron
      ion homeostasis
```

<400> 1
gtcccgcggg tctgtctctt gcttcaacag tggttgacg gaacagatcc ggggactctc 60
ttccagcctc cgaccgcctt ccgatttctt ctccgcttgc aacctccggg accatcttct 120
cgcccatctc ctgcttctgg gacctgccag caccgtttt gtggtagct ccttcttgcc 180
aaccatcac gagctcccag attcgtcaga attattccac cgacgtggag gcagccgtca 240
acagccttgtt caatttgtac ctgcaggcct cctacaccta cctctctctg ggcttctatt 300
tcgaccgcga tgatgtggct ctgaaaggcg tgagccactt cttccgcgaa ttggccgagg 360
agaagcgcga gggctacgag cgtctcctga agatgcaaaa ccagcgtgac ggccgcgtca 420
tcttccagga catcaagaag ccagctgaag atgagtgggg taaaacccca gacgcctatga 480
aagctccat ggcctggag aaaaagctga accaggccct ttggatctt catgccttgg 540
gttctgcccc cacggacccc catctctgtg acttccctgga gactcacttc ctagatgagg 600
aagtgaagct tatcaagaag atgggtgacc acctgaccaa cctccacagg ctgggtggcc 660
cgaggctgg gctggcgag tatctcttgc aaaggctcac tctcaagcac gactaagac 720
cttctgagcc cagcgcactt tgaaggccccc cttgaaagt aatagggtttt ctgcctaagc 780
ctctccctcc agccaatagg cagctttttt aactatccta acaaggcttg gaccaatgg 840
aaataaaqct ttttqatqca aaaaaaaaaa aaaaaaaaaa 878

878

<210> 2
<211> 1567

<212> DNA
<213> Homo sapiens

<220>
<221> gene
<222> (1)...(1567)
<223> FKBP8; FK506 binding protein 8, 38kDa

<400> 2

gggtgaggag gaagaggagg aggaagagga ggaagaggat gacctgagtg agctgccacc 60
gctggaggac atgggacaac ccccggcgg a gggcgttag cagcctgggg ccctggcccg 120
agagttcctt gctccatgg agcccgagcc cgcggccagcc cggccccccag aagagtggct 180
ggacattctg gggaaacgggg tttgaggaa gaagacgctg gtcccaaggc cgccagggttc 240
gagccgccccg gtcaaggggc aggtggtcac cgtacatctg cagacgtcgc tggagaatgg 300
cacacgggtg caggaggagc cggagcttgt gttcactctg ggtgactgtg acgtcatcca 360
ggccctggat ctca gtttgc cactcatggc cgtggggag acggccatgg tcactgctga 420
ctccaagtac tgctacggcc cccaaggccag caggagccca tacatcccc cgcacgcggc 480
cctgtgcctg gaggtgaccc tgaagacggc tggacgggg cctgacctgg agatgctcac 540
ggggcaggag cgcgtggccc tggcaaccgg aagcggggag tgcggcaacg cccactacca 600
gcggggcggac ttctgcctgg cgcggccactc ctacgaccc cccatcaagg ctatcaccc 660
cagcgccaaa gtggacatga cttcgagga ggaggcacag ctcctgcagt tgaaggtaa 720
gtgtctgaac aacctggcgg ctcgcagct gaagctcgac cactaccggc cagccctgcg 780
ctcctgcagc ttgtgtctgg agcaccagcc agacaacatc aaggctctt tccgcaaggg 840
caagggtctg gcccagcagg gggagttacag tgaggccatc cccatccctga gggcagccct 900
gaagctggaa ctttccaaca agacgatcca cgcagagctc tcaaagctgg tgaagaagca 960
tgcggcgcag cggagcacgg agaccgcctt gtaccggaaa atgctggca accccagccg 1020
gtctgcgtct aagtgcctg gcaagggtgc ctggccatc ccatggaaat ggctgtttgg 1080
ggcactgct gttgccttgg ggggtgtggc actctctgtg gtcatcgctg ccaggaactg 1140
accacctagg tggctgccac cccctctgca caccatggac cctgcctgc gctccccaa 1200
tcccccaaggc tccctgtcca ctgcctccc tggctggcc ccctcctccg gtttagggga 1260
gcaaggattt ggggtctgtgc agcccgccca gcaggaggaa ctgaggccct ctaggagaa 1320
agcccgagg gggggggccc tattcccttcc agaccctttt tccccccacc ctcccttaccc 1380
cgctgggcta ggtctccgccc agggctggcc tcagttctc ctcaacaggc ctggggcag 1440
cccttccctt gccttagtccc cgcttgatgtt ccagcccccc accccgcctg ccgccccctg 1500
tccaggttcc ctccccggcca cagtggaaata aagcatcccc ccctgcaaaaa aaaaaaaaaa 1560
aaaaaaaaa 1567

<210> 3
<211> 1596
<212> DNA
<213> Homo sapiens

<220>
<221> gene
<222> (1)...(1596)
<223> TUBA3: tubulin, alpha, ubiquitous

<400> 3

tgtcgccggac ggttaaccggg acccggtctc tgctccatgtc gccttcgcct cctgaatccc 60
tagccatatg cgtgagtgtca tctccatcca cgttggccag gctgggtgtcc agattggcaa 120
tgcctgtgg gagctctact gcctggaaaca cggcatccag cccgatggcc agatgccaag 180
tgacaagacc attggggag gagatgactc cttcaacacc ttcttcgttgc agacgggcgc 240
tggcaaggcac gtggccggg ctgtgtttgtt agacttggaa cccacagtca ttgtatggaa 300
tcgcactggc acctaccggc agtcttcca ccctgagccag ctcatcacag gcaagggaa 360
tgctgccaat aactatgccc gagggcacta caccatggc aaggagatca ttgacccctgt 420
gttggaccga attcgcaaggc tggctgatcca gtgcaccctgtt ctccagggtt tcttgggttt 480
ccacagctttt ggtggggaa ctgggtctgg gttcacccctc ctgtctatgg aacgcctgtc 540

agttgattat ggcaagaaat ccaagctgga gttctccatt taccggcac cccaggttc 60
cacagctgta gttgagccct acaaactccat cctcaccacc cacaccaccc tggagcactc 660
tgattgtgcc ttcatggtag acaaattggc catctatgac atctgtcgta gaaacctcg 720
tatcgagcgc ccaacctaca ctaaacctaa ccgccttatt agccagattg tgcctccat 780
caactgcttcc ctgagatttgc atggagccct gaatgtgac ctgacagaat tccagaccaa 840
cctggtcccc taccggcga tccacttccc tctggccaca tatgcccctg tcatactcgc 900
tgagaaagcc taccatgaac agcttctgt agcagacatc accaatgctt gcttggcc 960
agccaaccag atggtaat gtgaccctgg ccatggtaaa tacatggctt gctgcctgtt 1020
gtaccgttgt gacgtggttc ccaaagatgt caatgtgcc attgcccaca tcaaaaacca 1080
gcccacgatc cagttgtgg attgggtccc cactggctt aagggtggca tcaactacca 1140
gcctcccaact gtgggcctg gtggagaccc ggccaaggta cagagagctg tgcgtatgt 1200
gagcaacacc acagccatttgc ctgaggccctg ggctcgccctg gaccacaagt ttgacctgt 1260
gtatgccaag cgtgcctttg ttcaactggta cgtgggtggag gggatggagg aaggcgagtt 1320
ttcagaggcc cgtgaagata tggctggccct tgagaaggat tatgaggagg ttgggtgtg 1380
ttctgttgcggaa ggagagggtg aggaagaagg agaggaatac taattatcca ttccctttgg 1440
ccctgcagca tgcgtatgcctt ccagaatttc agcttcagct taactgacag atgttaaagc 1500
tttctgttgcggaa gattgttttc acttgggtat catgtctttt ccatgtgtac ctgtaatatt 1560
tttccatcat atctcaaagt aaagtcatcata acatca 1596

<210> 4

<211> 1800

<212> DNA

<213> Homo sapiens

<220>

<221> gene

<222> (1)...(1800)

<223> TTS-2.2; transport-secretion protein 2.2

<400> 4

gacagcgtct ccgcctccgc cggcggagac cccaaaggat cgagactgct ggacccactg 60
cccgcaggac atcgagtccac gatgttcacg agggagacca agtggacat ctcattcgct 120
ggctgcggct tcctcggtt ctaccacatt ggcgtggccct cctgcctccg tgagcacgc 180
cccttcctgg tggccaaacgc cactcacatc tacggagccct cggcaggggc gctcaccgc 240
acagecgctgg tcactggggc ctgcctgggt gaagcagggtg ccaacattat tgagggtgtcc 300
aaggaggccc ggaagcggtt cctgggtccct ctgcattccct cttcaacactt ggtgaagacc 360
atccgtggct gtctactaaa gaccctgcct gctgattgtcc atgagcgcgc caatggacgc 420
ctgggcattct ccctgactcg tggccatcgac ggagagaacg tcatcatatc ccacttttagc 480
tccaaggatg agctcatcca ggccaaatgtc tgcagcacat ttatcccggt gtactgtggc 540
ctcatttcctc ctaccctcca aggggtgcgc tatgtggatg gcccatttc agacaacttg 600
ccactttatg agctgaagaa taccatcaca gtgtcccat tctcaggcga gagtgacatc 660
tgccctcagg acagctccac caacatccac gagcttcgcg tcaccaacac cagcatccag 720
ttcaaccttc gcaatctcta ccgcctctcg aaggctctct tcccgccaga gcccattggc 780
ctccgagaga tgtgcaaaca gggtacaga gatggacttc gattccttag gaggaatgcc 840
ctgctggagg cctgtgtgga accaaaggac ctgatgacca cccttccaa catgctacca 900
gtgcgcctgg caacggccat gatgggtccc tatactctgc cgctggagag tgcgtgtcc 960
ttcaccatcc gcttgggtgga gtggctgcct gatgtccctg aagatatccg gtggatgaaa 1020
gagcagacgg gtagcatctg ccagatctg gtgtatgggg ccaagaggaa attgggtgac 1080
catctgcctt ccagactgtc tggcggatg gaactgcgc gtcggccatc tctgcctct 1140
gtgccactgt ctgcgtccac ctacagttag gcccattccaa actgggtacg aaacaacctc 1200
tcactggggg acgcgtggc caagtggaa gaatgcgc gtcagactact gctgggtctc 1260
ttctgcacca atgtgcctt cccggggat gccttgcgc tgcgcgcacc tgccagcccc 1320
actgcccacatc cccacaggat ccacctggcc tcccgccctg ctgagaatca 1380
ccatccccac atgcggccac taccagccaa gctccaagtt gtcctggccc actaagagga 1440
gccccgggggt ggaacaagat cctgtctgcc ccggctctcc cccttacatg ctgtggatg 1500
aggacatagg accctgcaca gctgcaagtg ggcttgcgt gtaaaacctt tcaccagcca 1560
ctcaactatgc tactcctggt ggggagggat ggggagtcgc cctccccccgg agccccacaga 1620

gcccctcccc gtcacgtcac ctgtgcctta ctccctggca ccacccccc agtgcaggg 1680
cagtcttaag aactccacat ctgtgtctgc tccctgggtgt ccaaggttcc ttgcagagtg 1740
tgtgaagaat tatttatttt tgccaaagca gatctaataa aagccacagc tcagcttctg 1800

<210> 5
<211> 1656
<212> DNA
<213> Homo sapiens

<220>
<221> gene
<222> (1)...(1656)
<223> UBXD1; UBX domain-containing 1

<400> 5
ttttcttccg ggggctggc tccggcgcc ccgtccccga ctggggcccg tgcccccccg 60
cccccgccgc ccccccgcgc cgggcccagcc gccaccatga agaaaattttt tcaggagtcc 120
aaggccgaca tcaaggtaa gagcgcggga cccggtcaga agctcaaaga gtccgtgggg 180
gaaaaggccc acaaagagaa gcccaaccag ccagcccccggccggccggcc 240
accaatgagg cacagatggc agccgtctgt gcccstagccccc ggctggagca gaagcagtcc 300
cggggctggg gccccacatc gcaggacacc atccgaaacc aggtgagaaaa ggaacttcaa 360
gccgaagcca ccgtcagcgg gagccccggag gccccagggaa ccaacgtggatctgagcccc 420
agagagggaaag gctctggccca cctggctgtg cctggctgtt acttcacccgt tccgctcaact 480
ggggccaccc tgaggaagga ccagcgggac gcctgcata aggaggccat tctcttgcac 540
ttctccaccc acccagtggc cgcctccatc atgaagatct acacgttcaa caaagaccag 600
gaccgggtga agctgggtgt ggacaccatt gccaagtacc tggacaacat ccacctgcac 660
cccgaggagg agaagtaccg gaagatcaag ctgcagaaca aggtgtttca ggagcgcatt 720
aactgcctgg aagggaccca cgagttttt gaggccattt ggttccagaa ggtgttgcatt 780
cccggccagg atcaggagga ccccgaggag ttctacgtgc tgagcggagac caccttggcc 840
cagccccaga gcctggagag gcacaaggaa cagctgtgg ctggggagcc cgtgcgcgc 900
aagctggaca ggcagcgcgc cgtcttccag ccctcgcccc tggcctcgca gttcgaactg 960
cctggggact tcttcaaccc cacagcagag gagatcaagc gggagcagag gctcagggtcc 1020
gaggcgggtgg agcggcttag cgtgtcgcc accaaggcca tggggggagaa ggaggaggcag 1080
cggggggctgc gcaagtacaa ctacacgtcg ctgcgcgtgc gcctccccga tggctgcctc 1140
ctgcaggggca ctttctacgc tcggggagccg ctggggggccg tggctgggtt cgtccggggag 1200
gccctgcaga gcgactggct gcctttttagt ctgctggccct cgggaggggca gaagctgtcc 1260
gaggacgaga acctggccctt gaacgagtgc gggctgggtgc cctctgcctt cctgaccctc 1320
tcgtgggaca tggctgtgtc tcatgtctcc cctgtttccct tccccccacccc cccaggccct 1380
ctgaaaccccg agctcctgtc agccatcgag aagctttgtt gaaataaaag cagggttggc 1440
ctcagccctg tggctgtgtc tcatgtctcc cctgtttccct tccccccacccc cccaggccct 1500
ccaagccacc tctggaaata cttggctctg ccccatgggc acggggagggg cggccagccgt 1560
ggagctgtgg aattggggcc cgtggcagag ccccatcccc ttgggggtgt tggggatgcg 1620
cccaagcccc cgaggagag gcctggggac accaac 1656

<210> 6
<211> 1745
<212> DNA
<213> Homo sapiens

<220>
<221> gene
<222> (1)...(1745)
<223> LOC51257; Hypothetical protein LOC51257

<400> 6
catttatcca gcagtgaact gtcctagcgc aagagttagt aattgtctcc ctgttcccttc 60

acctccccac tttggagctc agatttgtt ttttgttgc ttgtttgctt gctttcttt 120
gttctgtttt agagactgga gactgggtct tgctctgtta cccaggctgg agtgcagtgg 180
tgtgatcata gctcaactaca gcctgaact cctgggctca agaggttgag gctccctcct 240
cagcctccca agtagctggg actacaggct ttcagcacca tgcctggcta attcaaaaaaa 300
accttcagag agatagggtc tctctatgtt gccctagctc gtctcaaact cctggcctca 360
agtgtatcctc ctgcttggac ctcccaaagc gctgggatta caggctctg gaaccatggg 420
cctcaaggccc tgaggatacg gggctcccg tggccatgac gacgggtgac tgctgccacc 480
tccccggctc cctgtgtgac tgctccggca gccctgcctt ctccaagggtc gtggaggct 540
cggggctcgg accgccccag tatgtggcac aggtgacttc aagggtatggc cggctccct 600
ccaccgtcat ccgtacctt gacacaccga gtatggtcc tttctgccc atctgccatg 660
agggagcga cggggagtgc ttgtgttccc cgtgtggctg caccggcacg ctgggtgccc 720
tgcataaagag ctgtctggag aagtggctt cctcatctaa caccagctac tgcgagctgt 780
gccacacggg gtttgcagtg gagaaacggc ctcgaccct cacagagtgg ctgaaggacc 840
cggggccggc gacggagaag cgacactgt gctgcacat ggtgtgttcc ctgttcatca 900
caccgctggc cgccatctca ggctgggttgc ggctgcgcgg gggccaggac cacctccggc 960
tccacagcca gctggaggcc gtgggtctca ttgcctcact catgccttc ttcaccatct 1020
atgttctctg gacgctggc tcctccgct accactgcca gctgtactcc gagtggagaa 1080
agaccaaccca gaaagttcgc ctgaagatcc gggagggcga cagccccgag ggccccccagc 1140
attctccact ggcagctgga ctcttgaaga aggtggcaga ggagacacca gtatgaatgc 1200
tgggctctcc ggaccctgca gcagagagggc cagaggttagc tggtgatacc ctgttctgt 1260
gaaggacttc cacttcaaca ctcccaactc aacagttccc gcaacggcctg aacgcttctt 1320
aggccaagag acaccatgcg gggcttagtc tgtgatctg tgtgaagata ttttcaagggt 1380
ttttttttt ttttttttg catatggagg acaggtggac atggtcttga gctctggacg 1440
gagcaggcac cctgatctca ttctgaggc cacatggcactt ctctgggccc agcagctgt 1500
gccgggttat caagggcgcc cttaaagctg gaacattcca gcaagcttct tgcttcttc 1560
tgcacccggc aggccactt tcctggcacc ctcgacttta tataaaagtt gcactgcgtt 1620
tcaaaaaccc accctgaatg aataaaaagga gcccggctg gacaaaaaaaaaaaaaaa 1680
aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 1740
aaaaaa 1745

<210> 7
<211> 2700
<212> DNA
<213> Homo sapiens

<220>
<221> gene
<222> (1)...(2700)
<223> ITRPK1; Inositol 1,3,4-triphosphate 5/6 kinase

<400> 7
cgcagaggca cggcccaag tttgttgtga cggcggggg acgcccgtgg tggcgccagc 60
ggcggtcgcg ggggcacccg gccgcggcgc caccatggcg gtgcacagg cgctggccg 120
cggcctgcag ctgggtcgag cgctgtctgt ggcgttcaag ggcaagcccc gccggggctta 180
cggcttgggg cggccggggcc cggcgccggg ctgtgtccgc ggggagcggtc caggctgggc 240
cgcaggaccg ggcgcggagc ctcgcagggt cgggctcggt ctccctaacc gtctccgtt 300
cttccgcccag tgggtggccg ggctggccgc ggggttgcag cggcagttcg tggtgccggc 360
ctggggctgc gggggccctt gggccggggc agtctttctg gccttcggc tagggctggg 420
cctcatcgag gaaaacagg cggagagccg gggggccgtc tggcctgtc aggagatcca 480
ggcaattttt acccagaaaa gcaagccggg gcctgaccccg ttggacacga gacgcttgc 540
gggcttcgg ctggaggagt atctgatagg gcagtccatt ggttaagggtc gcagtgcgtc 600
tgtgtatgaa gccaccatgc ctacattgcc ccagaacctg gaggtgacaa agagcacccgg 660
gttgcttcca gggagaggcc caggtaacc tgaccaggaa gaaggccagg agcgagctcc 720
ggggggccctt gccttccct tggccatcaa gatgatgtgg aacatctcg gaggcttctc 780
cagcgaagcc atcttgaaca caatgagcca ggagctggc ccagcgagcc gagtggccctt 840
ggctggggag tatggagccg tcaacttacag aaaatccaag agaggtccca agcaacttagc 900
ccctcaccccc aacatcatcc gggttctccg cgccttcacc tttccgtgc cgctgcgtcc 960

agggggccctg gtcgactacc ctgatgtgct gccctcacgc ctccaccctg aaggcctggg 1020
ccatggccgg acgctgttcc tcgttatgaa gaactatccc tgtaccctgc gccagtacct 1080
ttgtgtgaac acaccaggcc cccgcctcg cgcctatgatg ctgctgcagc tgcttggagg 1140
cgtggaccat ctgggtcaac agggcatcgc gcacagagac ctgaaatccg acaacatcct 1200
tgtggagctg gacccagacg gctgcccctg gctggtgatc gcagattttg gctgctgcct 1260
ggctgtatgag agcatcgcc tgcagttgcc cttcagcagc tggtacgtgg atcggggcgg 1320
aaacggctgt ctgatggccc cagagggtgc cacggccctg cctggccccca gggcagtgtat 1380
tgactacaga aaggctgatg cctgggcagt gggagccatc gcctatgaaa tcttcgggct 1440
tgtcaatccc ttctacggcc agggcaaggc ccacctgaa agccgcagct accaagaggc 1500
tcagctacct gcactgccc agtcagtgcc tccagacgtg agacagttgg tgagggcact 1560
gctccagcga gaggcagca agagaccatc tgcccagta gcccacaatg tgcttcatct 1620
aagcctctgg ggtgaacata ttctagccct gaagaatctg aagtttagaca agatggttgg 1680
ctggctcctc caacaatcg cccgcactt gttggccaac aggctcacag agaagtgttg 1740
tgtggaaaca aaaatgaaga tgctcttct ggctaacctg gagttgtggaa cgctctgcca 1800
ggcagccctc ctccctgtct catggaggc agccctgtga tgcctgtca tggagctgg 1860
gaattactaa aagaacttgg catcctctgt gtcgtgtatgg tctgtaatg gtgagggtgg 1920
gagtcaaggag acaagacagc gcagagaggg ctggtagcc ggaaaaggcc tcgggcttgg 1980
caaatggaag aacttggatg agagttcagt ctgcagtcct gtgctcacag acatctgaaa 2040
agtgaatggc caagctggc tagtagatga ggctggactg aggaggggtt ggcctgcattc 2100
cacagagagg atccaggcca aggcaactggc tgcagttggc agagtttggc tgcacccctt 2160
gccccctaaca cgaggaactc gtttgaaggg ggcagcgtag catgtctgtat ttgccaccc 2220
gatgaaggca gacataaca tgggtcagca cggtcaatggc cgggagtggg aaattacatg 2280
aggcctgggc ctctgcgttc ccaagctgtg cggtctggac cagctactga attattaatc 2340
tcacttagcg aaagtgcacgg atgagcgtt agtaagtaag tgggggatt taaacttgag 2400
ggttccctc ctgactagcc tctttacatg gaattgtggaa atattaaatg caaatttaca 2460
actgcagatg acgtatgtgc ctgtactga atattttggct ttaagaatga ttcttataact 2520
ctgaagggtga gaatattttg tggcaggta tcaacattgg ggaagagatt tcatgtctaa 2580
ctaactaact ttatacatga ttttttaggaa gctatgccta aatcagcgtc aacatgcagt 2640
aaagggtgtc ttcaactgaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 2700

<210> 8
<211> 3139
<212> DNA
<213> Homo sapiens

<220>
<221> gene
<222> (1)...(3139)
<223> PINK1; PTEN induced putative kinase 1

<400> 8
ggccgaggag gaagtggcgg cggcgccggc gggactgcgc gccccagctc cgatccccgt 60
tccgcgtccc cgccggccggg aggagggtgcc cactcgctcg cggcgccgc cggccggccag 120
actcgccctg tggcgattt cctccggacc caggctcccc gcccggaggag gaagatgcag 180
acctttctga aagggaagag agttggctac tggctgagcg agaagaaaaat caagaagctg 240
aatttccagg ctttcggca gctgtgcagg aagcgaggga tggaggttgt gcagctgaac 300
cttagccggc cgatcgagga gcagggccccc ctggacgtca tcatccacaa gctgactgac 360
gtcatacttg aagccgacca gaatgtatgc cagtcctgg agctggtgca caggttccag 420
gagtacatcg atgcccaccc tgagaccatc gtccctggacc cgctccctgc catcagaacc 480
ctgcttgacc gctccaagtc ctatgagctc atccgaaga ttgaggccta catggaagac 540
gacaggatct gctcgccacc cttcatggag ctcacgagcc tggcgccggg tgacaccatg 600
cggctgtgg agaagaacgg ctgtacttcc ccattcattt gcaaaaccag agtggctcat 660
ggcaccaact ctacagat ggtatcggtt tcaaccagg agggcctgaa cgccatccag 720
ccaccctgcg tggccagaa tttcatcaac cacaacgcgg tcctgtacaa ggtgttctgt 780
gttggcgagt cctacaccgt ggtccagagg ccctcactca agaacttctc cgcaggcaca 840
tcagaccgtg agtccatctt cttcaacacgc cacaacgtgt caaagccgga gtcgtcatcg 900

gtcctgacgg agctggacaa gatcgagggc gtgttcgagc ggccgagcga cgaggtcatc 960
cgggagctct cccgggcct gcggcaggca ctgggcgtgt cactcttcgg catcgacatc 1020
atcatcaaca accagacagg gcagcacgccc gtcattgaca tcaatgcctt cccaggctac 1080
gagggcgtga gcgagttctt cacagaccc tcgaaccaca tcgccactgt cctgcagggc 1140
cagagcacag ccatggcagc cacaggggac gtggccctgc tgaggcacag caagttctg 1200
gccgagccgg cgggcggcct ggtgggcgag cggacatgca gcgccagccc cggctgctgc 1260
ggcagcatga tgggcagga cgcgcctgg aaggctgagg ccgacgcggg cggcacccccc 1320
aagctgccc accaga